ABSTRACT OF THE DISCLOSURE

Reflective polarization valve engine and projection display are disclosed. Instead of prism PBS, the projector applies wire-grid polarizers with advantages of higher heat-resistance, no limitation of the incident angle and no birefringence effects, to provide excellent contrast luminance. The light source in the projector utilizes an elliptical lamp under a telecentric optical system to achieve higher efficiency and avoid color gradient. In addition, the light paths are in special arrangement. The original beam is first splitted into RGB, and then proceeding with color-recombining right after being polarized via wire-grid polarizers and analyzed by reflective polarization valves. Hence, the analyzed beams finally are recombined images with superior performances.